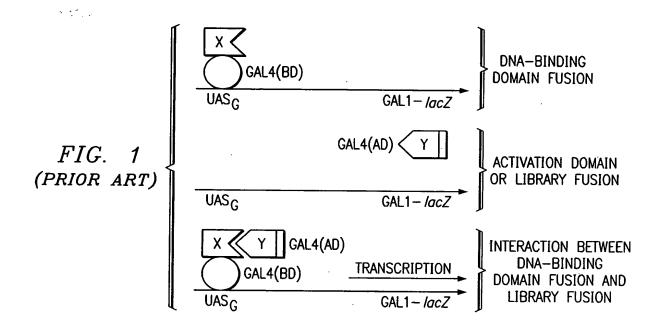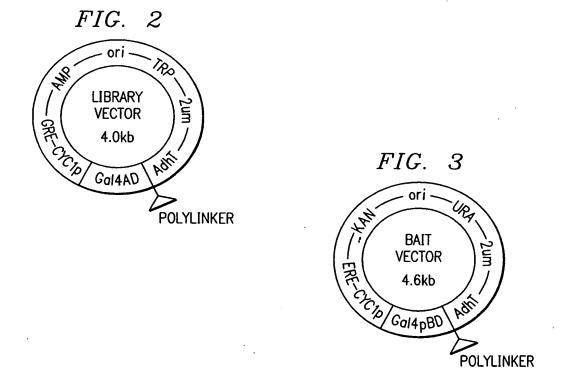ADJUSTABLE SENSITIVITY, GENETIC
MOLECULAR INTERACTION SYSTEMS,
INCLUDING PROTEIN-PROTEIN
INTERACTION SYSTEMS FOR DETECTION
AND ANALYSIS
Inventors: Edwards, et al.
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FIG. 1
(PRIOR ART)

X
GAL4(BD)
UAS_G   GAL1-*lacZ*
DNA-BINDING DOMAIN FUSION

GAL4(AD) Y
UAS_G   GAL1-*lacZ*
ACTIVATION DOMAIN OR LIBRARY FUSION

X Y GAL4(AD)
GAL4(BD)   TRANSCRIPTION
UAS_G   GAL1-*lacZ*
INTERACTION BETWEEN DNA-BINDING DOMAIN FUSION AND LIBRARY FUSION

FIG. 2

ori
AMP   TRP
GRE-CYC1p   2um
Gal4AD   AdhT
LIBRARY VECTOR 4.0kb
POLYLINKER

FIG. 3

ori
KAN   URA
ERE-CYC1p   2um
Gal4pBD   AdhT
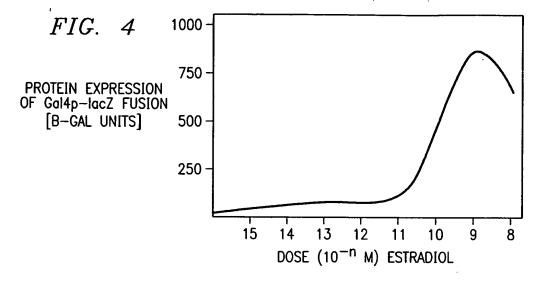BAIT VECTOR 4.6kb
POLYLINKER

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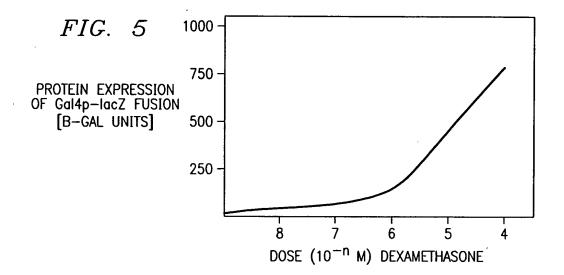Attorney Docket: 068660.0126   Page 2 of 2

FIG. 4

PROTEIN EXPRESSION
OF Gal4p-lacZ FUSION
[B-GAL UNITS]

DOSE (10^{-n} M) ESTRADIOL

FIG. 5

PROTEIN EXPRESSION
OF Gal4p-lacZ FUSION
[B-GAL UNITS]

DOSE (10^{-n} M) DEXAMETHASONE

FIG. 6

	LOW SENSITIVITY	MEDIUM SENSITIVITY	HIGH SENSITIVITY
LIBRARY FUSION	n=4 | | | |	n=4 | | | |	n=8 | | | | | | | |
ASSUME EQUILIBRIUM (50% BOUND)			
BAIT FUSION	n=8 | | | | | | | |	n=4 | | | |	n=4 | | | |
	1/4 BAIT BOUND BY LIBRARY	1/2 BAIT BOUND BY LIBRARY	DRIVEN TOWARD ALL BAIT BOUND BY LIBRARY
	3/4 NO OUTPUT	1/2 NO OUTPUT	MOST ALWAYS ON
	lacZ GAL	lacZ GAL	lacZ GAL